

Period	International peer-reviewed Journal	Invited book chapters	International conference proceedings	Total number of publications	Patent
1996- till date	133	08	15	156	01 (granted)
From 2004- Till date (After Joining BITS Goa)	122	08	08	138	01

Total number of citations: 6196 (till March 2024; Source Google Scholar): h- index: 37.

1) Patent: N N Ghosh, A Roy, H Aiyer, A Chatterjee ‘Nanoparticles Reinforced Hollow Fiber Membrane’ **Granted (Patent Number: 425562 (17/3/23))** (Indian Patent)

Detailed List of Publications:

(a) Publications in peer-reviewed International Journals

133. Darshana Anand Upar, Rajeshvari Samatbhai Karmur, , Manash R. Das, C. Prathibha, Narendra Nath Ghosh* Exfoliated g-C₃N₄-CdS-MXene an efficient all-solid-state Z-type heterojunction serving as efficient photo/electro/photoelectro catalyst for oxygen evolution reaction and dye degradation under visible light at low bias voltage, *Applied Surface Science*, 677, 161030 (2024)
132. Rajeshvari Samatbhai Karmur, Debika Gogoi, Manash R. Das, and Narendra Nath Ghosh* A flexible solid-state asymmetric supercapacitor device comprising cobalt hydroxide and biomass-derived porous carbon, *RSC Advances*, 14, 27465–27474, (2024).
131. Rajeshvari Samatbhai Karmur, Debika Gogoi, Shrishti Sharma, Manash R. Das, Anshuman Dalvi and Narendra Nath Ghosh* High-performance flexible solid-state asymmetric supercapacitor with NiCo₂S₄ as a cathode and a MXene-reduced graphene oxide sponge as an anode, *Journal of Materials Chemistry A J. Mater. Chem. A*, 12, 12762-12776 (2024).
130. Puja Saikia, Debasish Borah, Rupam Debnath, Debika Gogoi, Kangkan Jyoti Goswami, Jayashree Rout, Narendra Nath Ghosh, Chira R Bhattacharjee, Green sustainable synthesis of Ag doped SnO₂ decorated reduced graphene oxide hierarchical nanohybrid material: An excellent mesoporous catalyst for efficient reduction of nitroaromatics, *Journal of Environmental Chemical Engineering* 12 [4] , 113137 (2024).
129. Debasish Borah, Puja Saikia, Jayashree Rout, Debika Gogoi, Narendra Nath Ghosh, Chira R. Bhattacharjee, Sustainable green synthesis of SnO₂ quantum dots: A stable, phase-pure and highly efficient photocatalyst for degradation of toxic dyes, *Materials Today Sustainability* 26 100770 (2024)
128. (Invited paper) Debika Gogoi, Rajeshvari Samatbhai Karmur, Manash R. Das, and Narendra Nath Ghosh*, 2D-Ti₃C₂T_x MXene-supported Cu₂S nanoflakes for supercapacitors and electrocatalytic oxygen evolution reaction, *Journal of Materials Chemistry A* 2023, DOI: 10.1039/D3TA05104H (*This article is part of the themed collection: Celebrating the scientific accomplishments of RSC Fellows*) 11, 23867-23880 (2023).
127. Darshana Anand Upar, Debika Gogoi, Manash R. Das, Bhanudas Naik, and Narendra Nath Ghosh*, Facile Synthesis of gC₃N₄-Exfoliated BiFeO₃ Nanocomposite: A Versatile and Efficient S-Scheme Photocatalyst for the Degradation of Various Textile Dyes and Antibiotics in Water, *ACS Omega* 8, 41, 38524–38538 (2023).
126. Puja Saikia, Pranjit Borah, Debasish Borah, Debika Gogoi, Jayashree Rout, Narendra Nath Ghosh, Chira R. Bhattacharjee, Facile green synthesis of rGO and NiO, and fabrication of a novel ternary nanoheterostructure NiO@g-C₃N₄-rGO as earth abundant superior photocatalyst for dye degradation, *Materials Today Sustainability* 24, 100595 (1- 19) (2023).

125. Debasish Borah, Vishal Mishra, Rupam Debnath, Kheyali Ghosh, Debika Gogoi, Jayashree Rout, Piyush Pandey, Narendra Nath Ghosh, Chira Ranjan Bhattacharjee, Facile green synthesis of highly stable, water dispersible carbohydrate conjugated Ag, Au and Ag-Au biocompatible nanoparticles: catalytic and antimicrobial activity, *Materials Today Communications* 37, 107096 (2023) 1-16.
124. Debika Gogoi, Rajeshvari Karmur, Manash Das, Narendra Nath Ghosh, Spent Tea-Waste Derived Porous Carbon Supported Truncated Octahedral Cu₂O for Highly Efficient Energy Storage Device *Energy and Fuels* 37, 18, 14350–14364 (2023).
123. Debasish Borah, , Puja Saikia, , Debika Gogoi, Ankita Das, Jayashree Rout, Narendra Nath Ghosh, Piyush Pandey, Manash Das Gupta, Chira R. Bhattacharjee, Marine alga-mediated facile green synthesis, antibacterial and enhanced catalytic activity of highly stable superparamagnetic NiO nanostructure *Inorganic Chemistry Communications* 156, 111182 (2023)
122. Puja Saikia, Debasish Borah, Rupam Debnath, Debika Gogoi, Ankita Das, Jayashree Rout, Narendra Nath Ghosh, Piyush Pandey, Chira R. Bhattacharjee, Facile green synthesis of novel hierarchical Ag doped MnO₂ (Ag@MnO₂) nanoparticle embedded rGO nanohybrid: photophysical, catalytic and antibacterial activity *Surfaces and Interfaces* 40, 103015 (2023).
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120. Rajeshvari Samatbhai Karmur, Debika Gogoi, Anjana Biswas, C. Prathibha, Manash R. Das, Narendra Nath Ghosh*, Nanocomposite having Hierarchical Architecture of MXene-WO₃ nanorod@rGOSponge and Porous Carbon for Cathode and Anode Materials for High-Performance Flexible All-Solid-State Asymmetric Supercapacitor Device *Applied Surface Science* 619, 156753 (page 1- 13) (2023).
119. **Editorial Note:** Narendra Nath Ghosh, "Editorial the Research Topic Dielectric Microwave Absorbing Structures" *Frontiers in Materials, section Polymeric and Composite Materials* doi.org/10.3389/fmats.2023.1181978 (20th March 2023).
118. Debika Gogoi , Manash R. Das, Narendra Nath Ghosh*, 2-D gC₃N₄ supported CoFe₂O₄ nanoparticles as an efficient S-scheme catalyst for various antibiotic degradation *Applied Surface Science* 619 156753 (1-11) (2023)
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115. Debika Gogoi, Priyanka Makkar, Raghavendra Korde, Manash R. Das, Narendra Nath Ghosh*, Exfoliated gC₃N₄ supported CdS nanorods as a S-scheme heterojunction photocatalyst for the degradation of various textile dyes, *Advanced Powder Technology* 33, 103801 (2022).
114. Devika N. Nagar, Narendra Nath Ghosh and Judith M. Braganca, Green synthesis of selenium nanospheres and nanoneedles by halophilic archaea, *Applied Nanoscience* 12, 3983–3994 (2022).
113. Debika Gogoi, Rajeshvari Samatbhai Karmur, Manash R. Das, and Narendra Nath Ghosh*, "Cu and CoFe₂O₄ nanoparticles decorated hierarchical porous carbon: An excellent catalyst for reduction of nitroaromatics and microwave-assisted antibiotic degradation" *Applied Catalysis B: Environmental* 312, 121407 (2022).
112. Debika Gogoi, Raghavendra Korde, Virendra Singh Chauhan, Manoj Kumar Patra, Debmalya Roy, Manash R. Das, Narendra Nath Ghosh*, CoFe₂O₄ Nanoparticles Grown within Porous Al₂O₃ and Immobilized on Graphene Nanosheets: A Hierarchical Nanocomposite for Broadband Microwave Absorption *ACS Omega*, 7, 32, 28624–28635 (2022)
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(d) Details of the Patent:

N N Ghosh, A Roy, H Aiyer, A Chatterjee 'Nanoparticles Reinforced Hollow Fiber Membrane' Granted (Patent Number: 425562 (17/3/23) (Indian Patent)

(e) Presentation at National and International Conferences: More than 50

Invited Talks: More than 10